Name: HW67\_Exponential\_Inequalities

*Mr. Tiénou-Gustafson & Mr. Bielmeier*

Geometry, Period

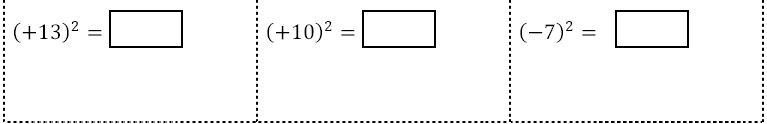
Due Date: Thu, Dec 5, 2014 ***REMINDER:*** *ALWAYS SHOW YOUR WORK!*

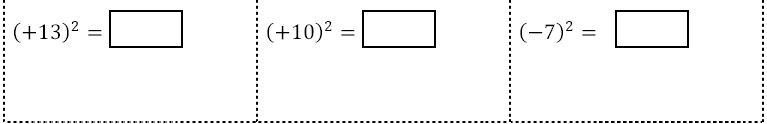
**Geometry**

**Homework**



**1. Squares & Cubes** (showing work here is basically showing what you’re plugging into the calculator)



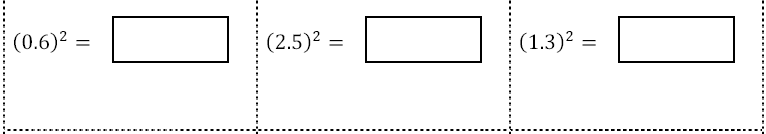


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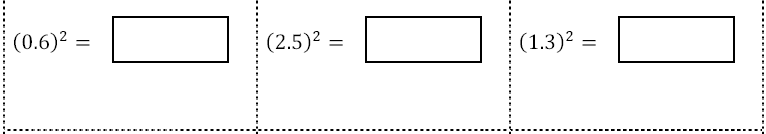
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**2. Decimals**



**-**



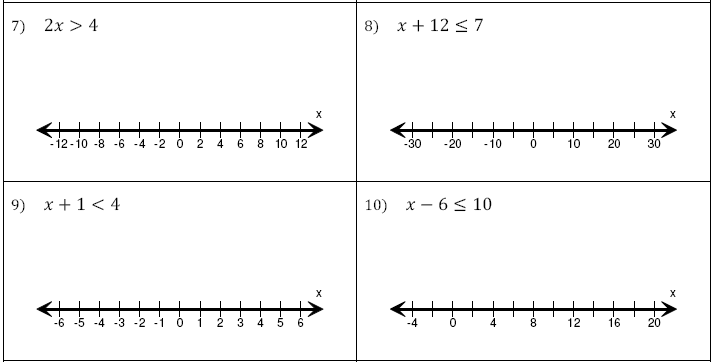
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3

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**3. Graphing Inequalities (solve & then graph)**



**4. Square & Cube Roots**

**Example: x3 < 27**

**(x3)1/3 < 271/3 🡪 *this is the same as saying***

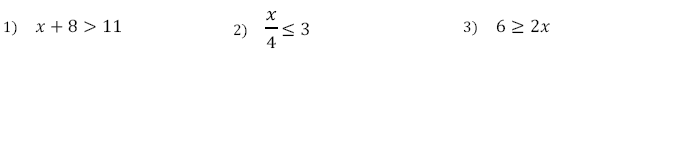
**x < 3**

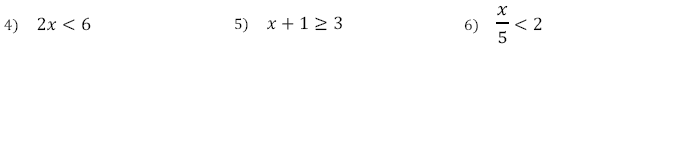
*As a check, if x = 4 (outside the solution set), x3 = 64, which does not fit the inequality (i.e., 64 is not less than 27). However, if x = 2 (inside the solution set), x3 = 8, which does fit the inequality (i.e., 8 is less than 27).*

6b. What is a number inside the solution set for #6? \_\_\_\_ What is a number outside the solution set? \_\_\_\_

*Test both to see if your answer is correct. Show your work & explain if it proves you correct here:*

**5. One-Step Inequalities** (solve for x)





**6. Multi-step inequalities (with exponents)**